DDC 500 Series

PRECAUTIONS

PLEASE READ CAREFULLY BEFORE PROCEEDING

⚠ WARNING

Always follow the basic precautions listed below to avoid the possibility of serious injury or even death from electrical shock, short-circuiting, damages, fire or other hazards. These precautions include the following:

Power supply/Power cord/Grounding

- Use only floated test equipment. Oscilloscopes, PCs, signal generators, voltmeters, etc. must be connected through a three-to-two-prong adapter to avoid ground loops and other conditions that may damage the amplifier.
- Use only the supplied power cord.
- Do not place the power cord near heat sources such as heaters, or place it in a position where anyone could walk on, trip over, or roll anything over it.

Do not open

- Do not attempt to disassemble or modify the internal components in any way.
- Opening the unit requires a written authorization from KSC Industries.

Fire/burn/damage warning

- Do not insert objects (such as screwdrivers) through the amplifier's perforated caging. This could be hazardous to you and could cause permanent damage to the Plate Amplifier. Doing so, voids the product warranty.
- Do not touch any speaker leads together from different drivers while the unit is powered; this could damage one or more amplifier modules.
- Do not touch the aluminum enclosure with any of the speaker leads while the unit is turned on; this could damage the associated amplifier module.
- Do not place the Plate Amplifier close to a hot surface.

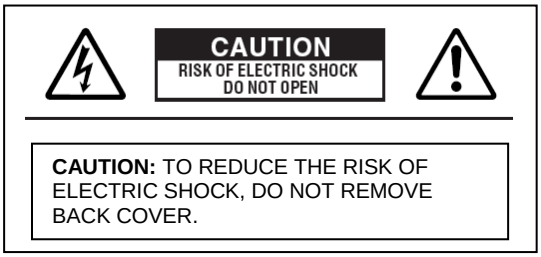
Loudspeaker connection

- Read the Amplifier specifications (page 22) before connecting loudspeaker loads and applying input signals.
- Check the Connection Diagrams section (page 12) to properly connect the drivers and avoid damage to them.

Operation

- Your DDC 500 Series Amplifier is factory programmed to 0dB Output Gain; please take your precautions before applying any audio signal to the input.
- Read the Amplifier specifications (page 22) before connecting loudspeaker loads.
- Do not operate the LF, MF and/or HF amplifier sections (depending on the model) to Max Power when all the channels are set to flat response without crossover filters. Such settings will force the amplifiers with lower power rating to exceed the maximum output and may result in failure.
- Do not run unfiltered high frequency test signals (5-20 kHz) for more than a few seconds since this could cause permanent damage to the Amplifier.
- Make sure to run the amplifier with all channels connected to a load.
- Always turn off the unit when not in use.

KSC Industries cannot be held responsible for damage caused by improper use or modifications to the amplifier system.



The exclamation point within the equilateral triangle is intended to alert the user to the presence of important operating instructions in the literature of the product.

The lightning flash with arrowhead symbol, within the equilateral triangle, is intended to alert the user to the presence of un-insulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electrical shock.

FCC Information (U.S.A.)

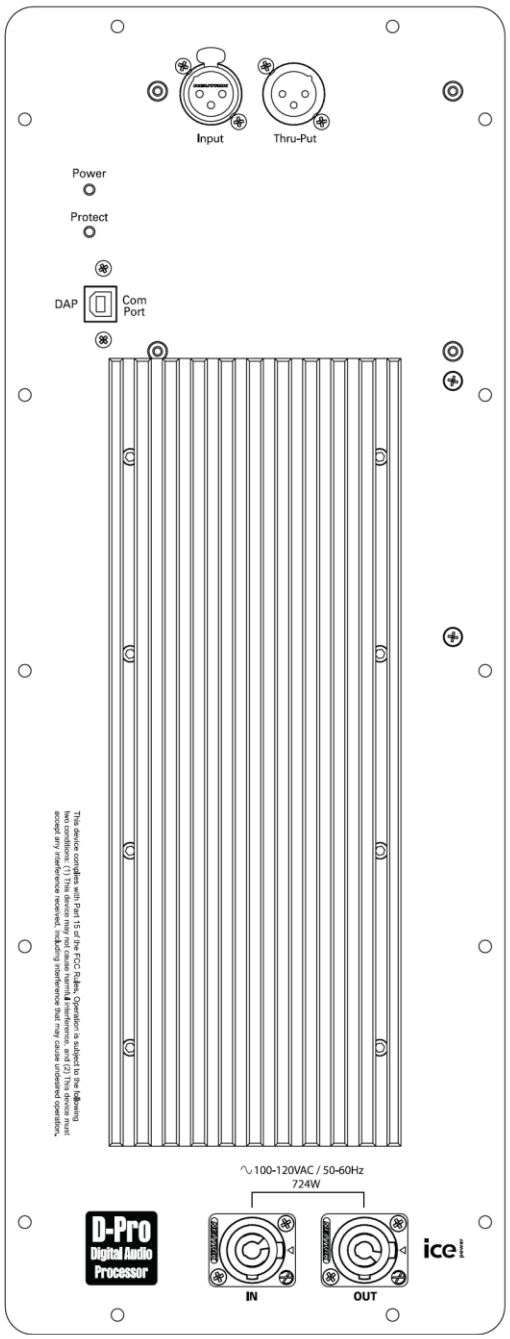
This device complies with Part 15 of the FCC rules. Operation is subject to the following conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation.

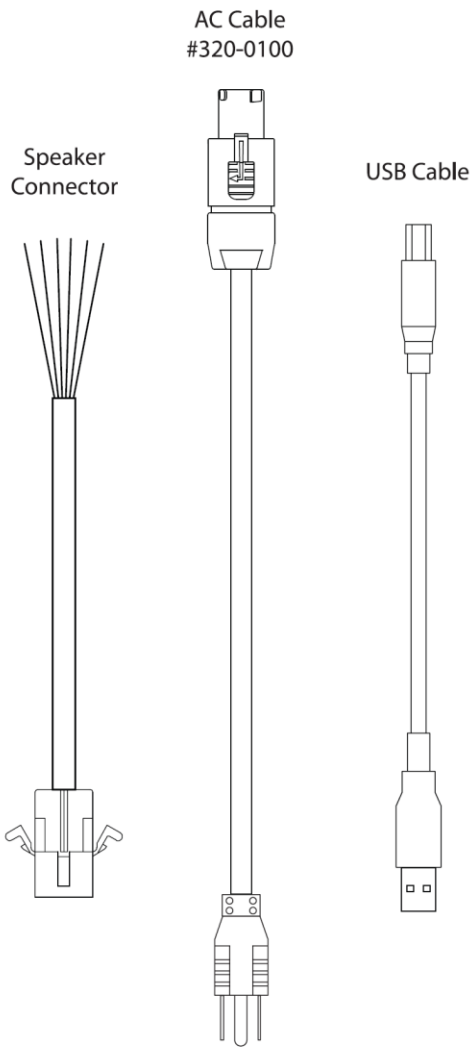
Introduction

Congratulations and thank you for your purchase of the Digmoda Professional DDC 500 Series Amplifier. We're sure it will meet your demands and exceed your expectations.
Please take time to look through this manual carefully. It's packed with important information on how to get the most from this amazing product. Dig in, see how easy it is to setup and work with this amplifier, and enjoy! Note: USB cable not included.

Package Contents

DDC 500 Series Amplifier





About This Manual

This manual outlines a series of steps to operate your DDC 500 Series Amplifier in the right way and avoid malfunctions, errors or even damage to the unit.
Please follow the steps in order:

1. Get familiar with the unit parts and connectors
2. Download and install the software
3. Follow the connection diagrams
4. Operate the unit according to instructions

The manual is organized into 5 main sections and it's been designed to get you started fast with the DDC 500 Series Amplifier Basics. These sections are:

■ **The connectors and indicators**	Use this section to identify the parts of the DDC Amplifier prior to connecting power and signals.
■ **Software installation**	Before going on to any other part of the manual, we strongly suggest you read this section. It shows how to install the necessary software to operate the unit.
■ **Connection diagrams**	This section covers the wiring of the system according to the specific model you are operating.
■ **Basic operation**	Use this section to learn the essential features that the DDC series offers to you and how the hardware interacts with software to deliver the sound you're looking for.
■ **Appendices**	This part of the manual contains important information regarding the electrical specifications as well as mechanical data helpful to integrate your system.

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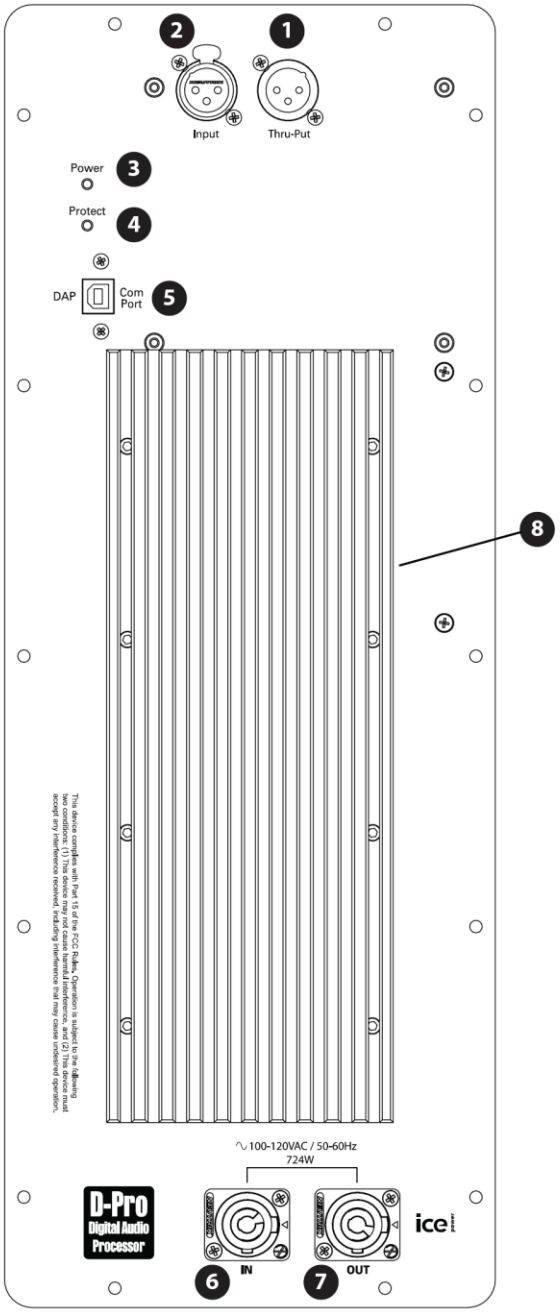
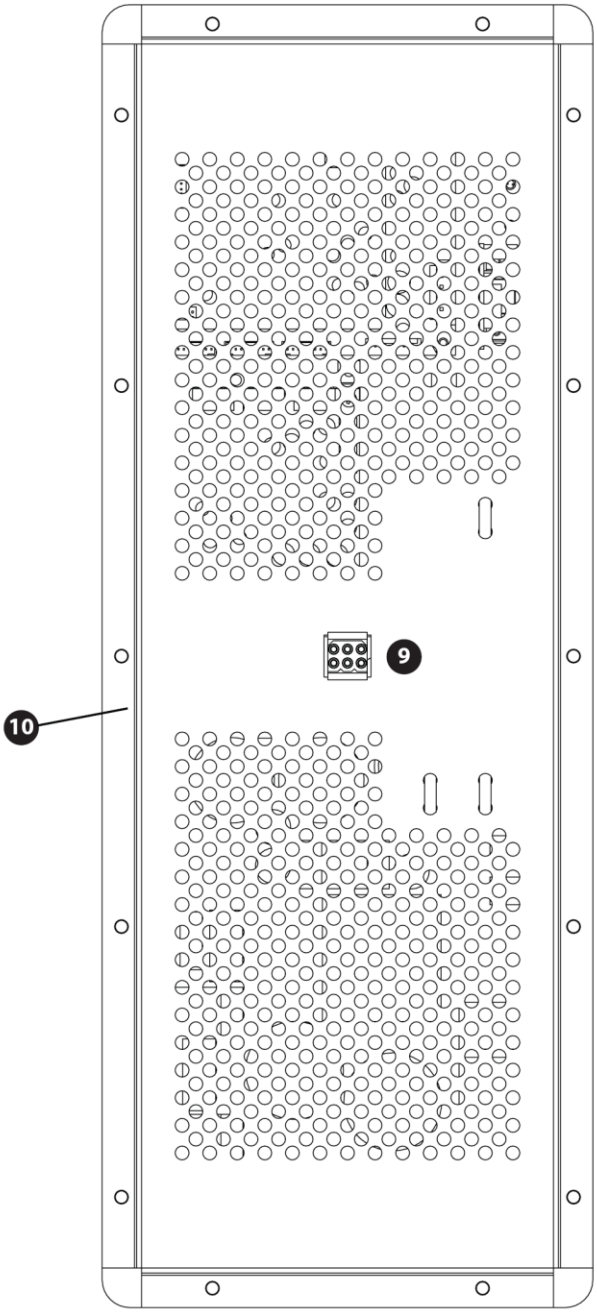
The Connectors & Indicators

Front Panel



Back Panel



1. Signal Throughput Connector
2. Signal Input Connector
3. LED Power Indicator
4. LED Protection Indicator
5. Serial Communication Port
6. AC Power In Receptacle
7. AC Power Out Receptacle
8. Heatsink
9. Speaker Connector
10. Aluminum Enclosure

Connectors & Indicators Description

1 Signal Throughput Connector

This connector allows a pass through of the audio signal to other devices. One application might be a daisy-chain setup connecting more than one DDC Series Amplifier.

2 Signal Input Connector

Use this connector to input the source audio signal to be processed and amplified by your DDC unit.

3 LED Power Indicator

This LED will be lit as long as the system is ON (connected to AC line voltage.)

4 LED Protection Indicator

This LED will turn on temporarily when AC is applied to the unit (as part of the start-up sequence) and permanently when thermal protection has been triggered or when a short circuit has been detected.

5 Serial Communication Port (USB)

This port allows communication between the DDC Series Amplifier and your computer. This communication is necessary to load configuration files and to allow data transfer during the process of fine tuning and customizing your system.

6 AC Power In Receptacle

Connect the provided AC cord to the line voltage (120V or 230V depending on the product model) here.

7 AC Power Out Receptacle

This is a helpful AC power pass-thru connection which can be used to connect several DDC units in a daisy-chain fashion avoiding the need for additional electrical outlets.

8 Heatsink

An important part of the DDC Series design is the heatsink plate, which minimizes the chances for overheating, letting the amplifier modules and the overall system

9 Speaker Connector

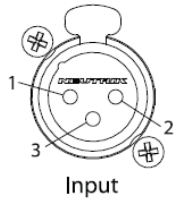
Use this connector to plug in the speaker cable (provided in the package) and to connect the wires to the corresponding driver, depending on the amplifier model.

10 Aluminum enclosure

All DDC Series Amplifiers come shielded with a perforated aluminum enclosure to provide protection.

Connectors
Detail & Pin-out

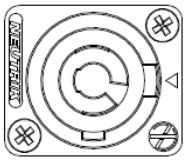
2. SIGNAL INPUT CONNECTOR (FEMALE XLR)



Input

Pin Out
1 Ground
2 Signal +
3 Signal –

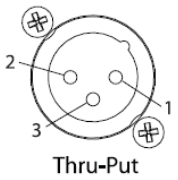
7. AC POWER OUT RECEPTACLE



OUT

Voltage Based on Model
See AC Power IN Notes

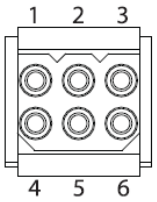
1. SIGNAL THROUGHPUT CONNECTOR (MALE XLR)



Thru-Put

Pin Out
1 Ground
2 Signal +
3 Signal –

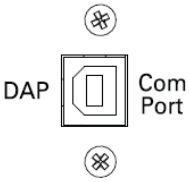
9. SPEAKER OUT CONNECTOR **[552 MODEL]**



Pin Out

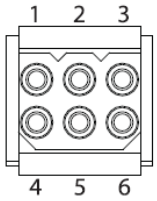
3 HF Module Pos +
6 HF Module Neg –
2 MF Module Pos +
5 MF Module Neg –
1 LF Module Pos +
4 LF Module Neg –

5. SERIAL COMMUNICATION PORT



Standard USB
Pin Out

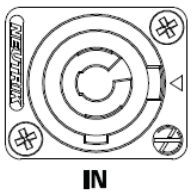
9. SPEAKER OUT CONNECTOR **[550 MODEL]**



Pin Out

3 N/A
6 N/A
2 MF Module Pos +
5 MF Module Neg –
1 LF Module Pos +
4 LF Module Neg –

6. AC POWER IN RECEPTACLE

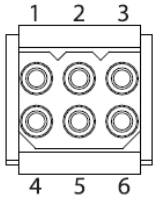


IN

DDC5XX (115V)
∿100-120VAC / 50-60Hz
724W

DDC5XX (230V)
∿ 220-230VAC / 50-60Hz
3.15A

9. SPEAKER OUT CONNECTOR **[520 MODEL]**



Pin Out

3 HF Module Pos +
6 HF Module Neg –
2 N/A
5 N/A
1 LF Module Pos +
4 LF Module Neg –

Software Installation

Download and install the software

All DDC 500 Series Amplifier Systems can perform a diversity of functions through powerful DSP chips that can deliver amazing results in sound characteristics and frequency response. In order to bring the power of these functions to your hands, a computer program called **D-Pro Software** has been developed. To download and install the D-Pro Software follow these next steps.

Step 1

Go to the Digmoda web site: http://www.kscind.com/digmoda/

Step 2

Click on the

button located in the lower right corner.

Step 3

A login window will appear asking for username and password. †
Enter the information in the corresponding boxes.

Step 4

Once you are logged in, copy the folder named ------- to your computer and un-compress the D-PRO.zip file.

Step 5

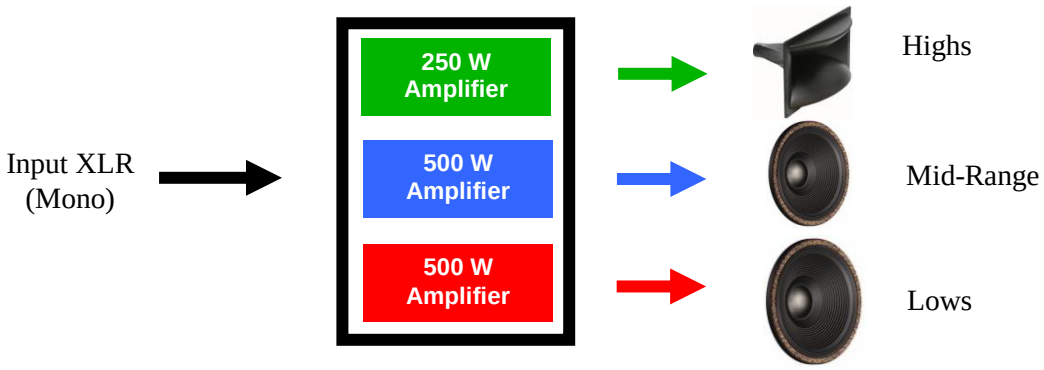
Open the folder where you saved the information and execute (double-click) the file “setup.exe” to install the software. If an older version of this program is already installed on your PC, executing “Setup.exe” will uninstall the older version allowing you to replace it with the newer one (re-run Setup.exe if this is the case for you).
The “D-Pro window Software User's Manual” can be launched from the “Help!” Menu on the main screen once the software is running.

† *User name and Password are provided to you upon your purchase of the product.*

Connection Diagrams

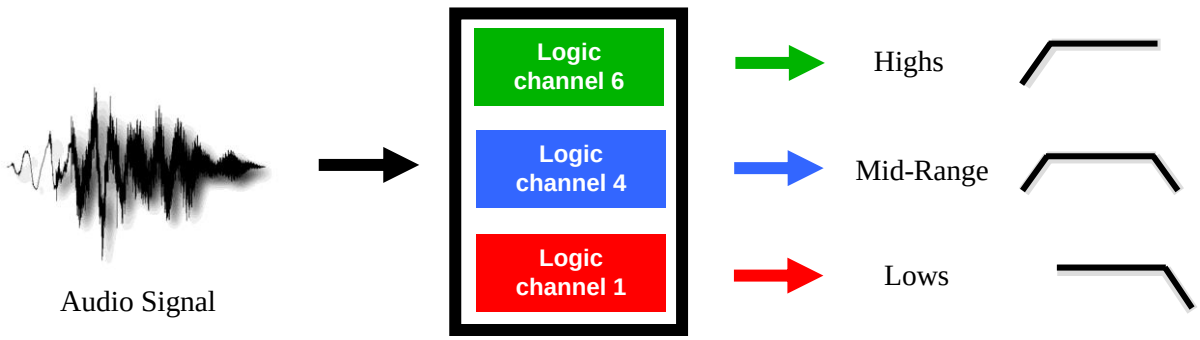
DDC552 – Driver Wiring — Hard-wiring

Wire the Amplifier based on the diagram shown below.
Consult Speaker Wire Connector Details and Pin-out on page 10.



Software Routing

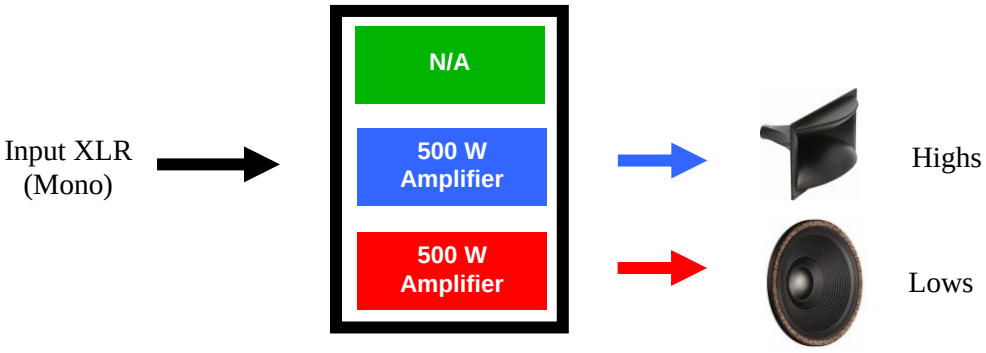
Each amplifier module inside the DDC552 is routed to an individual logic channel.
Each of these channels is a dedicated processing unit responsible for achieving a very specific sound characteristic by means of a collection of powerful filters which include: HP, LP, BP, Parametric EQ, Bass Shelf, Treble Shelf as well as other DSP functions like Compression, Delay and Phase Inversion.
By default the Configuration for the DDC552 has been programmed with the logic channel routing and filtering represented in this diagram.



DDC550 – Driver Wiring

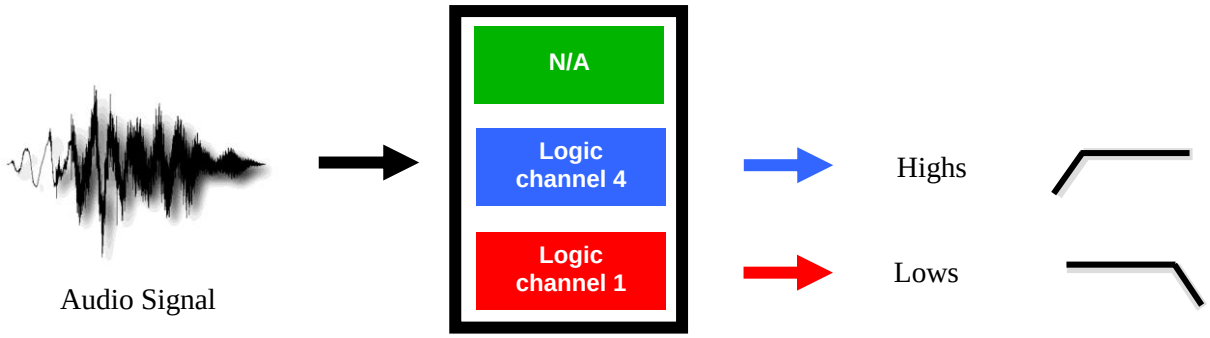
Hard-wiring

Wire the Amplifier based on the diagram shown below.
Consult Speaker Wire Connector Details and Pin-out on page 10.



Software Routing

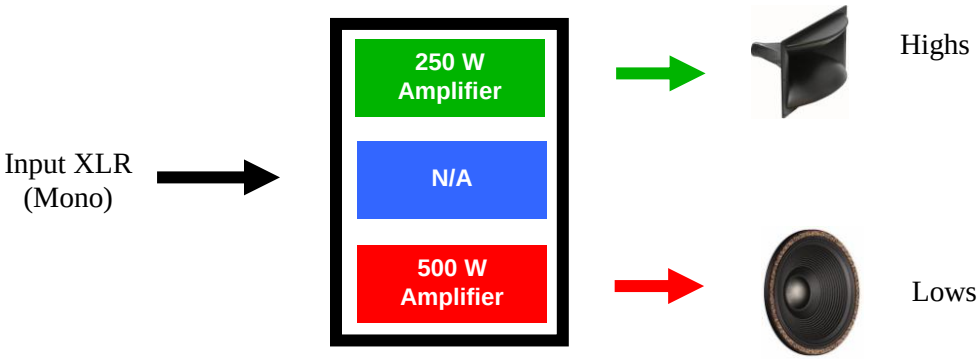
Each amplifier module inside the DDC552 is routed to an individual logic channel.
Each of these channels is a dedicated processing unit responsible for achieving a very specific sound characteristic by means of a collection of powerful filters which include: HP, LP, BP, Parametric EQ, Bass Shelf, Treble Shelf as well as other DSP functions like Compression, Delay and Phase Inversion.
By default the Configuration for the DDC550 has been programmed with the logic channel routing and filtering represented in this diagram.



DDC520 – Driver Wiring

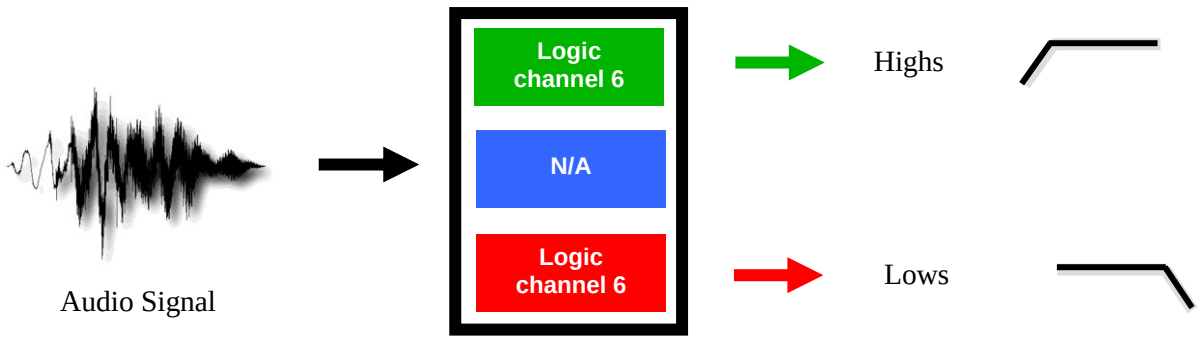
Hard-wiring

Wire the Amplifier based on the diagram shown below.
Consult Speaker Wire Connector Details and Pin-out on page 10.

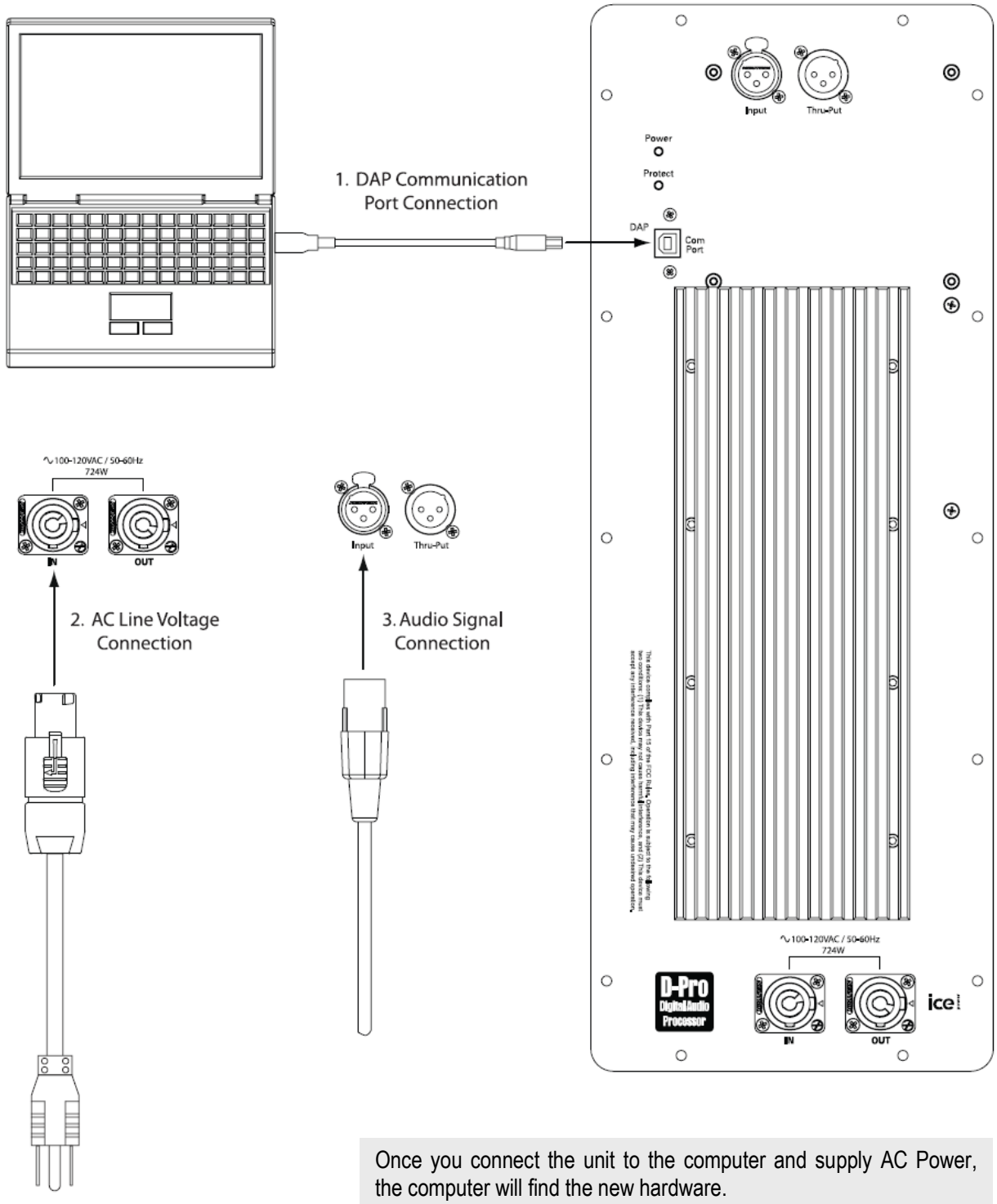


Software Routing

Each amplifier module inside the DDC552 is routed to an individual logic channel.
Each of these channels is a dedicated processing unit responsible for achieving a very specific sound characteristic by means of a collection of powerful filters which include: HP, LP, BP, Parametric EQ, Bass Shelf, Treble Shelf as well as other DSP functions like Compression, Delay and Phase Inversion.
By default the Configuration for the DDC520 has been programmed with the logic channel routing and filtering represented in this diagram.



Connect the DDC 500 Series Amplifier according to the drawing shown below.



Once you connect the unit to the computer and supply AC Power, the computer will find the new hardware.

Basic Operation

PERFORMANCE TESTS

Once the unit is connected as indicated on the previous page, you can test the operation and performance of your DDC 500 Series Amplifier in its factory configuration scheme.

Acoustic Tests

- If you want to perform acoustic tests *make sure your system is wired to the drivers* according to the diagram for your specific model (check Connection Diagram section on page 16).

Electrical Tests

- If you need to run electrical tests substitute the loudspeakers for resistor loads according to specs (check Appendices section for specifications on your particular amplifier model).

INTERFACING WITH THE COMPUTER

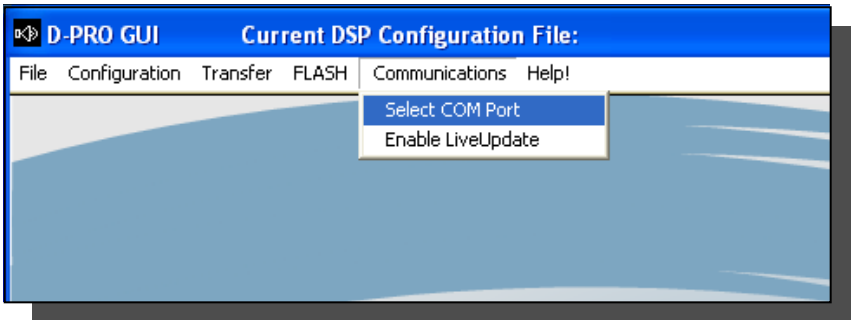
To establish communication between your DDC 500 Series Amplifier and a computer,

Follow these instructions carefully:

1 Launch the **D-Pro software program** you installed previously (refer to Software Installation section on page 11 if you haven't done so).

2 Click on the **Communications** TAB and click on the **Select COM Port** option.

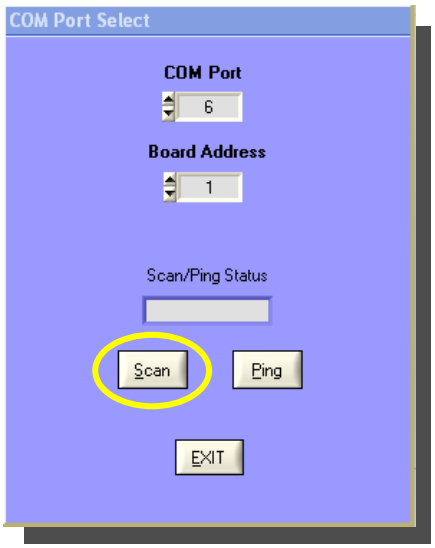
This step is required once. You don't need to repeat it every time you use the software, unless you're connecting the Amp to a different computer.



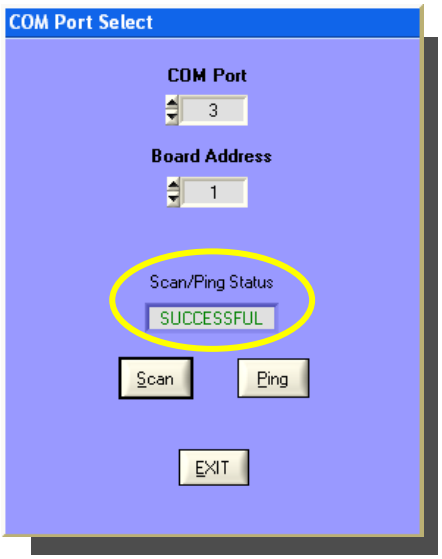
Interfacing with the computer

3 A new window will show up. Click on the button labeled **SCAN.**

The program will scan for an available COM Port and once it finds it, it will use it to communicate your DDC Amplifier with the PC.



As soon as the program finds and assigns a Communications Port you will see the word SUCCESSFUL appearing in the scan status box.



Click on EXIT to close this window

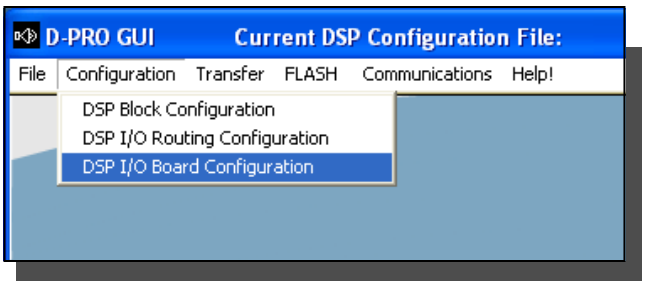
Your amplifier is now ready to receive information from the computer and process audio through powerful DSP chips and functions.

A BRIEF LOOK AT THE SOFTWARE PROGRAM

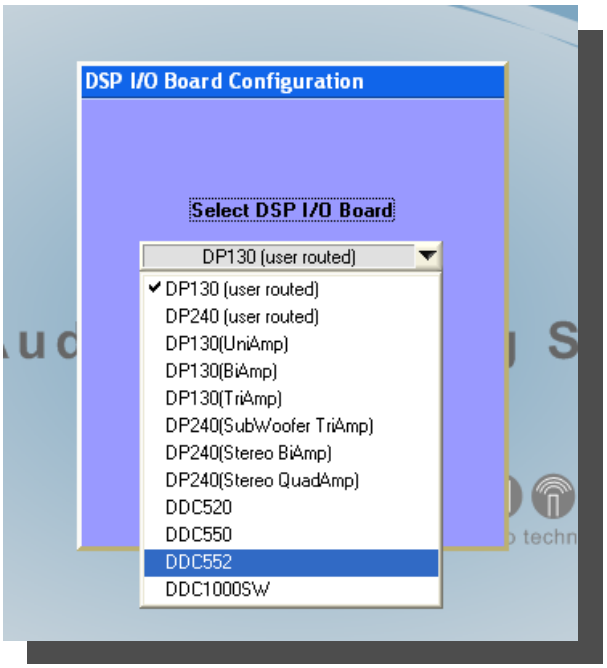
☞ **The only goal of this section** is to show you how to access the DSP functions and modify parameters in real time so you can hear and/or see the difference instantaneously. To fully understand and learn all about the software functions please refer to the **D-Pro Windows Software User's Manual**.

1 Click on the **Configuration** TAB and click on **DSP I/O Board Configuration** option.

With this step we will tell the program to load the default configuration for the Amplifier model we're testing.



2 A new window will show up.
Click on the drop-down arrow and click on your amplifier model.

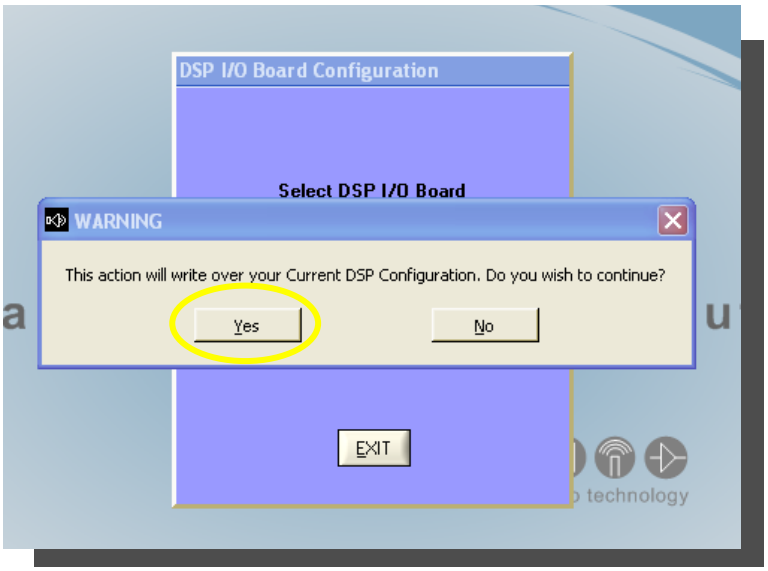


A brief look at the software program

3

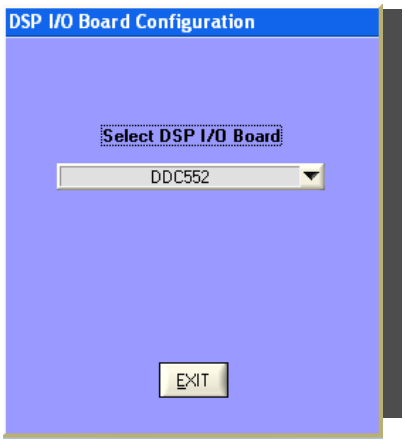
A warning will show up:

"This action will write over your current DSP configuration.
Do you wish to continue?"



You can click on **YES** due to the fact that you're running the software for the 1st time and you don't have any user configuration files to lose.

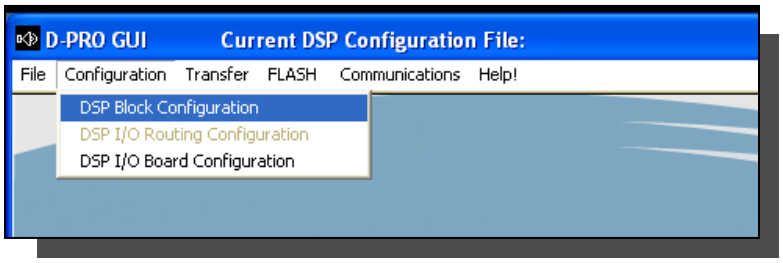
If you had been working for hours on a custom configuration and you attempted to load the default I/O Board Configuration, you would lose all your data if you didn't save it before.



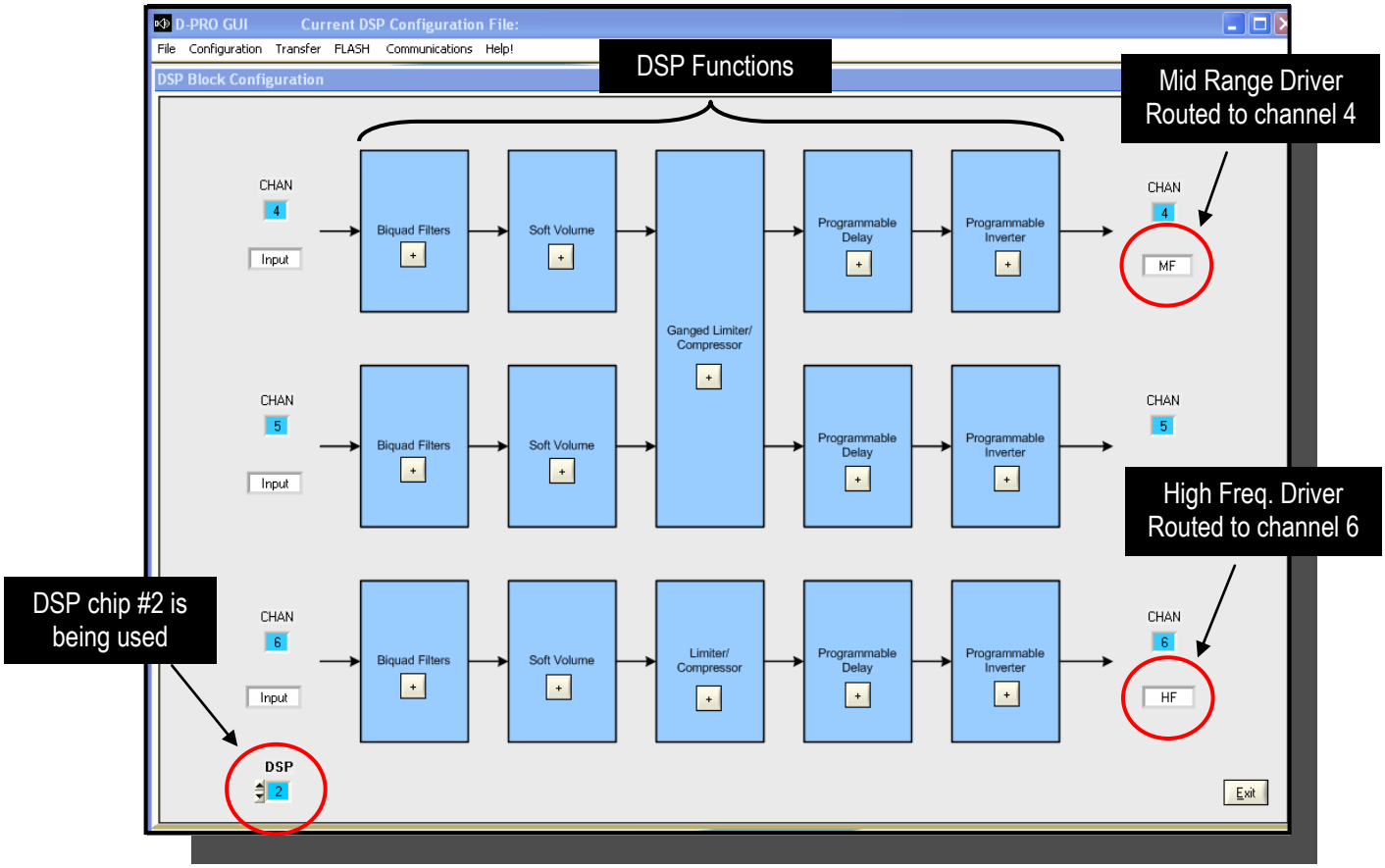
Click on EXIT to close this window

A brief look at the software program

4 Click on the **Configuration** TAB and click on **DSP Block Configuration** option.



This will take you to a new screen that shows a Block Diagram representing all the DSP functions available to you. Clicking on any of these blocks will bring up a new window containing all the parameters and controls necessary to make any desired adjustments to the corresponding block.

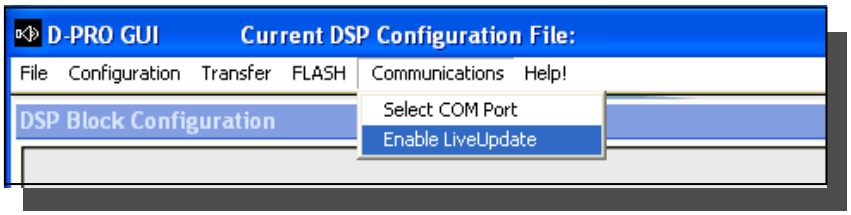


Example of a Block Diagram Screen
[DDC552 Amplifier Model]

A brief look at the software program

5

Click on any of the blocks to access its respective set of controls and graphical representations.
You can modify them as you wish, but in order to apply your changes in real time (for quick checking) you will need to enable the ***LiveUpdate.***
To do this, go to the **Communications** TAB and click on **Enable *LiveUpdate***.



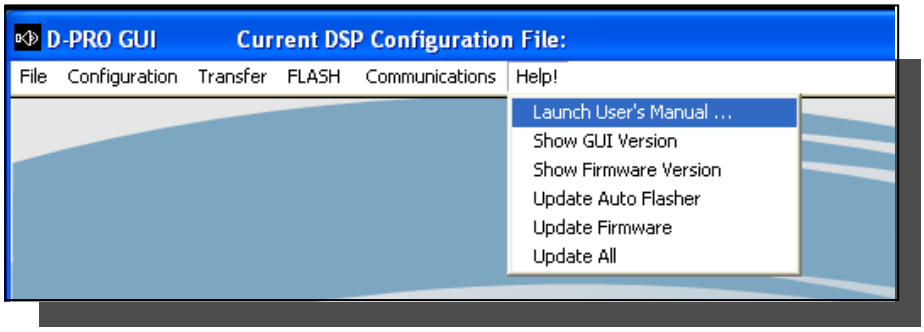
A message will pop up on the screen telling you that the Live Update option is being activated. Once it disappears you can continue.

6

Change the DSP functions freely.
Filters, soft volume, limiter/compressor, etc…
All modifications you make will affect the output in real time. If there are drivers connected to the unit you'll hear how the sound changes immediately.
Once you're done testing the program simply close it without saving anything

For further details on how to take advantage of all the software and DSP functions and how to transfer your modifications (temporarily or permanently) to the Amplifier, please refer to the D-Pro Windows Software User's Manual.

You can access the manual directly on the D-Pro screen.
Just click on the **HELP!** TAB and select the **Launch User's Manual** option.



Appendices

I. DDC552 Specifications

DDC552

Audio Specifications

Parameter	Conditions	Min	Typ	Max	Unit
THD+N in 4Ω (AES17 filter)	f = 40Hz, Po = 1W	-	0.009	0.011	%
	f = 500Hz, Po = 1W	-	0.025	0.031	
	f = 1KHz, Po = 1W	-	0.019	0.024	
THD+N in 8Ω (AES17 filter)	f = 40Hz, Po = 1W	-	0.007	0.009	
	f = 500Hz, Po = 1W	-	0.016	0.020	
	f = 1KHz, Po = 1W	-	0.013	0.016	
Max THD+N in 4Ω (AES17 filter) -10dBFS	f = 40Hz	-	0.006	0.008	%
	f = 500Hz	-	0.008	0.010	
	f = 1KHz	-	0.010	0.013	
Max THD+N in 8Ω (AES17 filter) -10dBFS	f = 40Hz	-	0.006	0.008	
	f = 500Hz	-	0.008	0.010	
	f = 1KHz	-	0.010	0.013	
THD+N Low Level in 4Ω	f = 40Hz, 100mW		0.02		%
	f = 500Hz, 100mW		0.04		
	f = 1KHz, 100mW		0.07		
THD+N Low Level in 8Ω	f = 40Hz, 100mW		0.02		
	f = 500Hz, 100mW		0.04		
	f = 1KHz, 100mW		0.05		
Nominal Voltage Gain (A_v)	f = 40Hz		29.92		dBV
	f = 500Hz		29.97		
	f = 1KHz		29.98		
Frequency Response (Po = 1W)	20Hz - 100Hz	-	+/-0.5	+/-1	dB
	100Hz - 2KHz	-	+/-0.5	+/-1	
	2KHz - 20KHz	-	+/-0.5	+/-1	
Common Mode Rejection (CMR)	20Hz - 20KHz		-55		dB
Signal to Noise Ratio in 4Ω (SNR)	0dB = 1% THD, 40Hz		-135		dB
	0dB = 1% THD, 500Hz		-125		
	0dB = 1% THD, 1KHz		-110		
Signal to Noise Ratio in 8Ω (SNR)	0dB = 1% THD, 40Hz		-136		
	0dB = 1% THD, 500Hz		-125		
	0dB = 1% THD, 1KHz		-105		
Input Impedance (Z_{in})	Unbalanced		18K		Ω
	Balanced		36K		
Input Sensitivity in 4Ω (Balanced) (V_{in})	f = 40Hz, 500W		1.43		Vrms
	f = 500Hz, 500W		1.42		
	f = 1KHz, 225W		0.99		
Input Sensitivity in 8Ω (Balanced) (V_{in})	f = 40Hz, 250W		1.42		
	f = 500Hz, 250W		1.40		
	f = 1KHz, 112W		0.95		

1. DDC552 Specifications (continued)

DC Output Offset in 4Ω (DC_{off})	Low channel		3.0		mVrms
	Mid channel		3.3		
	High channel		4.3		
DC Output Offset in 8Ω (DC_{off})	Low channel		9.5		
	Mid channel		4.0		
	High channel		4.3		
Input Clipping (Vin_{clip})	f = 1KHz		12		dBu
Damping Factor (D_f) (On three amplifiers)	f = 100Hz, R_L = 8Ω		2000		

Power Specifications

Parameter	Conditions	Min	Typ	Max	Unit
Max output power 1% THD+N (P_o) (AES17 filter)	R_L = 4Ω, 40Hz	-	500	-	W
	R_L = 4Ω, 500Hz	-	500	-	
	R_L = 2.7Ω, 1KHz	-	250	-	
	R_L = 4Ω, 1KHz		225		
Max output power 1% THD+N (P_o) (AES17 filter)	R_L = 8Ω, 40Hz	-	250	-	
	R_L = 8Ω, 500Hz	-	250	-	
	R_L = 8Ω, 1KHz	-	112	-	
Power Draw at Idle (P_{idle}) (115VAC/60Hz)	Idle (115VAC/60Hz)	-	19.3	-	W

-Input Connector: XLR female
-Thru-put Connector: XLR Male
-Power Indicator: Green LED
-Fault Indicator: Red LED
-Power Switch: Neutrik, PowerCon
-Output Circuitry: Class-D amps with analog feedback
-Speaker output connector: MOLEX 03-09-2062 (On the back)
-DSP Control: USB

II. DDC550 Specifications

DDC550

Audio Specifications

Parameter	Conditions	Min	Typ	Max	Unit
THD+N in 4Ω (AES17 filter)	f = 40Hz, Po = 1W	-	0.009	0.011	%
	f = 500Hz, Po = 1W	-	0.025	0.031	
THD+N in 8Ω (AES17 filter)	f = 40Hz, Po = 1W	-	0.007	0.009	
	f = 500Hz, Po = 1W	-	0.016	0.020	
Max THD+N in 4Ω (AES17 filter) -10dBFS	f = 40Hz	-	0.006	0.008	%
	f = 500Hz	-	0.008	0.010	
Max THD+N in 8Ω (AES17 filter) -10dBFS	f = 40Hz	-	0.006	0.008	
	f = 500Hz	-	0.008	0.010	
THD+N Low Level in 4Ω	f = 40Hz, 100mW		0.02		%
	f = 500Hz, 100mW		0.04		
THD+N Low Level in 8Ω	f = 40Hz, 100mW		0.02		
	f = 500Hz, 100mW		0.04		
Nominal Voltage Gain (Av)	f = 40Hz		29.92		dBV
	f = 500Hz		29.97		
Frequency Response (Po = 1W)	20Hz - 100Hz	-	+/-0.5	+/-1	dB
	100Hz - 20KHz	-	+/-0.5	+/-1	
Common Mode Rejection (CMR)	20Hz - 20KHz		-55		dB
Signal to Noise Ratio in 4Ω (SNR)	0dB = 1% THD, 40Hz		-135		dB
	0dB = 1% THD, 500Hz		-125		
Signal to Noise Ratio in 8Ω (SNR)	0dB = 1% THD, 40Hz		-136		
	0dB = 1% THD, 500Hz		-125		
Input Impedance (Z_{in})	Unbalanced		18K		Ω
	Balanced		36K		
Input Sensitivity in 4Ω (Balanced) (V_{in})	f = 40Hz, 500W		1.43		Vrms
	f = 500Hz, 500W		1.42		
Input Sensitivity in 8Ω (Balanced) (V_{in})	f = 40Hz, 250W		1.42		
	f = 500Hz, 250W		1.40		
DC Output Offset in 4Ω (DC_{off})	Low channel		3.0		mVrms
	High channel		3.3		
DC Output Offset in 8Ω (DC_{off})	Low channel		9.5		
	High channel		4.0		
Input Clipping (Vin_{clip})	f = 1KHz		12		dBu
Damping Factor (D_f) (On three amplifiers)	f = 100Hz, R_L = 8Ω		2000		

Power Specifications

Parameter	Conditions	Min	Typ	Max	Unit
Max output power 1% THD+N (P_o) (AES17 filter)	R_L = 4Ω, 40Hz	-	500	-	W
	R_L = 4Ω, 500Hz	-	500	-	
Max output power 1% THD+N (P_o) (AES17 filter)	R_L = 8Ω, 40Hz	-	250	-	
	R_L = 8Ω, 500Hz	-	250	-	
Power Draw at Idle (P_{idle}) (115VAC/60Hz)	Idle (115VAC/60Hz)	-	18	-	W

II. DDC550 Specifications (continued)

-Input Connector: XLR female
-Thru-put Connector: XLR Male
-Power Indicator: Green LED
-Fault Indicator: Red LED
-Power Switch: Neutrik, PowerCon
-Output Circuitry: Class-D amps with analog feedback
-Speaker output connector: MOLEX 03-09-2062 (On the back)
-DSP Control: USB

III. DDC520 Specifications

DDC520

Audio Specifications

Parameter	Conditions	Min	Typ	Max	Unit
THD+N in 4Ω (AES17 filter)	f = 40Hz, Po = 1W	-	0.009	0.011	%
	f = 1KHz, Po = 1W	-	0.019	0.024	
THD+N in 8Ω (AES17 filter)	f = 40Hz, Po = 1W	-	0.007	0.009	
	f = 1KHz, Po = 1W	-	0.013	0.016	
Max THD+N in 4Ω (AES17 filter) -10dBFS	f = 40Hz	-	0.006	0.008	%
	f = 1KHz	-	0.010	0.013	
Max THD+N in 8Ω (AES17 filter) -10dBFS	f = 40Hz	-	0.006	0.008	
	f = 1KHz	-	0.010	0.013	
THD+N Low Level in 4Ω	f = 40Hz, 100mW		0.02		%
	f = 1KHz, 100mW		0.07		
THD+N Low Level in 8Ω	f = 40Hz, 100mW		0.02		
	f = 1KHz, 100mW		0.05		
Nominal Voltage Gain (Av)	f = 40Hz		29.92		dBV
	f = 1KHz		29.98		
Frequency Response (Po = 1W)	20Hz - 100Hz	-	+/-0.5	+/-1	dB
	100KHz - 20KHz	-	+/-0.5	+/-1	
Common Mode Rejection (CMR)	20Hz - 20KHz		-55		dB
Signal to Noise Ratio in 4Ω (SNR)	0dB = 1% THD, 40Hz		-135		dB
	0dB = 1% THD, 1KHz		-110		
Signal to Noise Ratio in 8Ω (SNR)	0dB = 1% THD, 40Hz		-136		
	0dB = 1% THD, 1KHz		-105		
Input Impedance (Z_{in})	Unbalanced		18K		Ω
	Balanced		36K		
Input Sensitivity in 4Ω (Balanced) (V_{in})	f = 40Hz, 500W		1.43		Vrms
	f = 1KHz, 225W		0.99		
Input Sensitivity in 8Ω (Balanced) (V_{in})	f = 40Hz, 250W		1.42		
	f = 1KHz, 112W		0.95		
DC Output Offset in 4Ω (DC_{off})	Low channel		3.0		mVrms
	High channel		4.3		
DC Output Offset in 8Ω (DC_{off})	Low channel		9.5		
	High channel		4.3		
Input Clipping (Vin_{clip})	f = 1KHz		12		dBu
Damping Factor (D_f) (On three amplifiers)	f = 100Hz, R_L = 8Ω		2000		

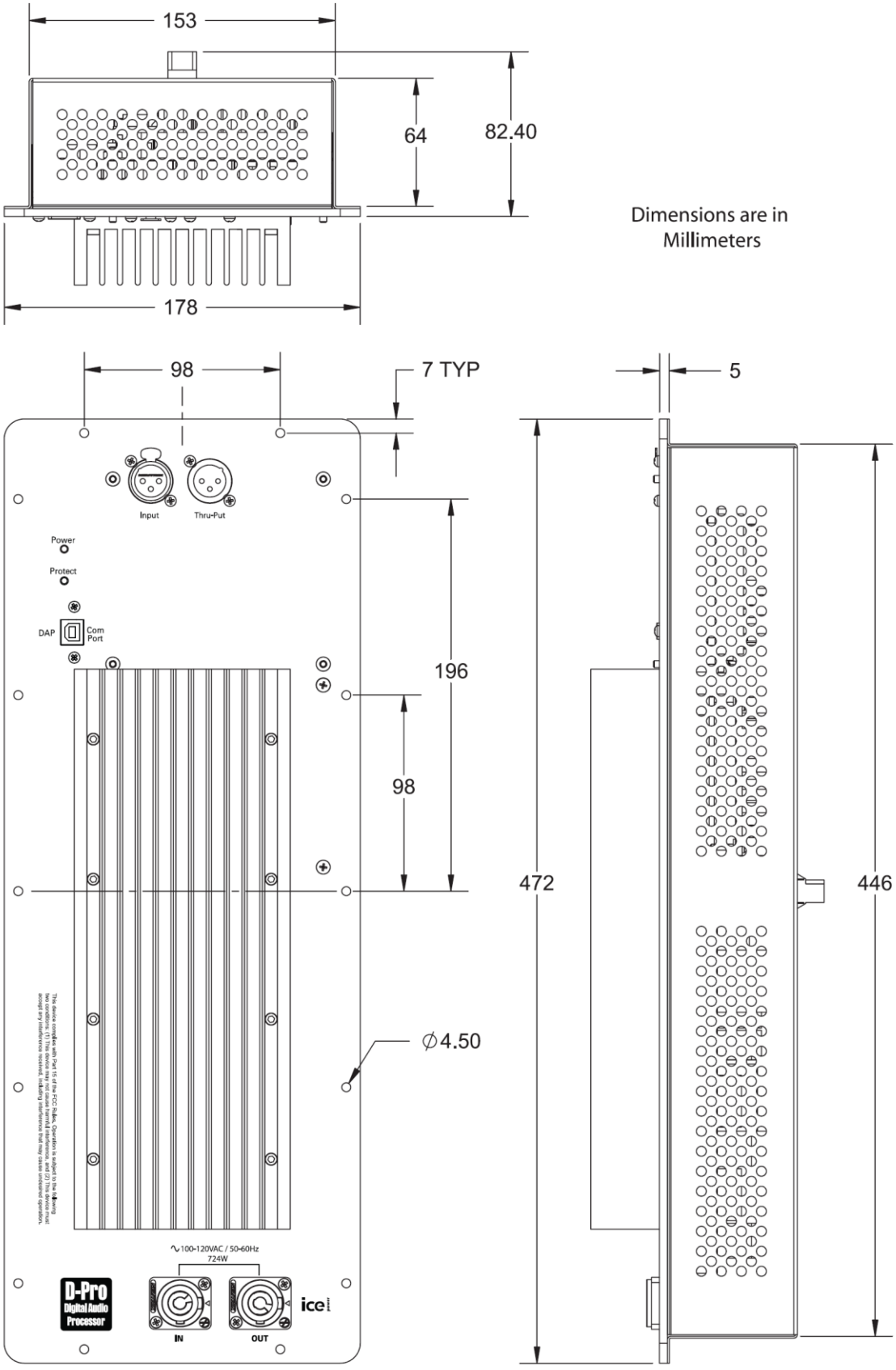
Power Specifications

Parameter	Conditions	Min	Typ	Max	Unit
Max output power 1% THD+N (P_o) (AES17 filter)	R_L = 4Ω, 40Hz	-	500	-	W
	R_L = 2.7Ω, 1KHz	-	250	-	
Max output power 1% THD+N (P_o) (AES17 filter)	R_L = 8Ω, 40Hz	-	250	-	
	R_L = 8Ω, 1KHz	-	112	-	
Power Draw at Idle (P_{idle}) (115VAC/60Hz)	Idle (115VAC/60Hz)	-	15	-	W

III. DDC520 Specifications (continued)

-Input Connector: XLR female
-Thru-put Connector: XLR Male
-Power Indicator: Green LED
-Fault Indicator: Red LED
-Power Switch: Neutrik, PowerCon
-Output Circuitry: Class-D amps with analog feedback
-Speaker output connector: MOLEX 03-09-2062 (On the back)
-DSP Control: USB

IV. DDC5xxx Series Mechanical Dimensions



V. Computer Requirements

- Windows XP Pro or Home Edition
- Intel Pentium 4, 1 GHz (or better)
- 512 MB RAM
- 60 (or greater) GB Hard-Drive
- 1024x768 (or better) Video Display
- Mouse
- 1 free USB port

VI. Contact Information

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